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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/620,113	07/20/2000	Masato Kurokawa	13630 (JA9-1999-0053 US1)	2885

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EXAMINER

CHUONG, TRUC T

ART UNIT

PAPER NUMBER

2174

DATE MAILED: 12/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/620,113

Applicant(s)

KUROKAWA ET AL.

Examiner

Truc T Chuong

Art Unit

2174

-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Tamir et al. (U.S. Patent No. 5,923,365).

As to claim 1, Tamir teaches a video contents access method that uses trajectories of objects, comprising the steps of: extracting objects from video contents (on video, col. 1 lines 13-16); displaying the movements of said objects as trajectories on a specific projection screen (fig. 1, col. 7 lines 6-21, col. 8 lines 19-35; and fig. 2, col. 8 lines 45-47); specifying locations along said trajectories; and accessing a desired scene contained in said video contents (col. 2 lines 11-15).

As to claim 2, Tamir teaches the trajectories of said objects are those displayed, in order with time for video contents, in a time for video interval between a currently displayed video frame and a preceding video frame displayed a predetermined time period earlier (col. 13 lines 59-63, col. 11 lines 10-15).

As to claim 3, Tamir teaches that a user can control the speed at which said trajectories of said objects are displayed (col. 7 lines 32-37).

As to claim 4, Tamir teaches a scale for representing an important scene is displayed with said trajectories of said objects on a projection screen (image analyzer 50, col. 7 lines 16-21).

As to claim 5, Tamir teaches Traj of said objects are calculated by the following equation: $Traj = (object\ ID, start\ time, end\ time, line\ graph\ representation)$ (col. 2 lines 1-5).

As to claim 6, Tamir clearly shows that video data are either a VC or VD (col. 6 lines 59-64), and it can manage time code (col. 7 lines 32-37).

As to claim 7, Tamir teaches displaying on the same projection screen a window in which images of said contents of said video are displayed and a window in which said trajectories of said objects are displayed (col. 3 lines 3-5, figs. 2 and 4).

As to claim 8, Tamir teaches to specify said locations along said trajectories, a pointing device is used to designate points along said trajectories (figs. 1, 2 and 4, col. 7 lines 38-42).

As to claim 9, Tamir inherently teaches a plurality of video contents are used because Tamir's system could replay a variety of different events such as: basketball, football and soccer game (col. 6 lines 9-10) by a plurality sources such as: a VC, VD or broadcasted transmission and also output live video (col. 6 lines 59-62).

As to claim 10, it is a product claim of method claim 1. Note the rejection of claim 1 above.

Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hjelsvold et al. (Searching and Browsing a Shared Video Database, IEEE, 1995) teach searching and browsing a video stream (pages 90-98).

Gautraud et al. (U.S. Patent No. 4,893,182) teach video tracking and displaying system, images and objects, and trajectory (figs. 2, 4, 5, and 8, col. 2-9).

Hammack (U.S. Patent No. 3,996,590) teaches tracking objects and trajectories (cols. 1, 2, 6-32, and 92-98).

Jain et al. (U.S. Patent No. 6,144,375) teach viewing objects, querying events, displays (figs. 7-9 and cols. 4-32).

Lowy et al. (U.S. Patent No. 5,768,151) teach trajectory of an object, frames, and images (fig. 2 and cols. 3-10).

Pingali et al. (U.S. Patent No. 5,764,283) teach tracking moving objects in real time, and trajectory (fig. 1 and cols. 2-8).

Rowland (U.S. Patent No. 5,781,505) teaches trajectory, source location, displays, and tracking objects (figs. 2 and 4, cols. 2-7).

Williams et al. (U.S. Patent No. 5,287,446) teach trajectory and movement of an object (cols. 2-12).

Yoneda et al. (A New Communication Tool: Time Dependent Multimedia Document, IEEE, 1992) teach displaying, searching images and objects (pages. 90-97).

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Truc T Chuong whose telephone number is 703-305-5753. The examiner can normally be reached on M-F 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine L. Kincaid can be reached on 703-308-0640. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Truc T. Chuong

November 26, 2002

Kristine Kincaid
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